READING AID

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Abstract

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(54) READING AID

(71) I, JOHN SULLIVAN, an Australian Citizen, of 14 Wand Street, Nundah, Queensland, Australia, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a reading aid.

It is often required for a person to be able to read with sufficient light in a room where the general lighting in inadequate. This is particularly so where the general illumination has to be kept low, as when viewing television.

An object of this invention is to provide a concentrated light source attachable to reading spectacles.

Accordingly the present invention is a reading aid suitable for use with reading spectacles including, an optical curved reflector, a light within the curve of said reflector, a clip to removably engage the side frame of a pair of spectacles, a first pair of electrical contacts on said clip, a corresponding second pair of electrical contacts for attachment to said frame engageable with the first pair of contacts when said clip is engaged and electrical connections between said first pair of contacts and said light and for connecting between said second pair of contacts and a source of electrical energy.

The reflector and light source may be made as a unit to clip onto the spectacle frame and preferably the frame incorporates leads for connecting the second pair of electrical contacts with the battery or other electric means.

In order that the invention may be better understood, a particular embodiment will be described with reference to the accompanying drawings, in which:—

Fig. 1 is an elevation of spectacles showing a unit according to the invention attached,

Fig. 2 shows a front elevation of the unit to enlarged scale, and

Fig. 3 is a section on line 3—3 of Fig. 2.

The spectacles 10 with a frame 11 are of ordinary construction except, as will be explained below, that the frame 1 may include electrical leads.

A unit 12, shown in details in Figs. 2 and 3, is clipped to one side of frame 11 so that it can be either attached or removed at will.

Unit 12 includes a spherical or parabolic light reflector 13, a socket 14 for a miniature light globe 15 and a pair of clips 16 adapted to grip the frame 11.

The body and clips of unit 12 are preferably moulded in one piece of a tough synthetic plastic with a certain resilience to allow clips 16 to grip the frame firmly, socket 14 and certain wiring being incorporated in the moulded body.

The inner side of each clip 16 is provided with a metal plate 17 which contacts a terminal 18 on the frame 11 of spectacles 10. Plates 17 are connected via wiring 19 to the terminals of socket 14.

Leads embedded in the frame 11 connect from terminals 18 to a sub-miniature connector socket (not shown) preferably on the earpiece of spectacles 10. A battery is provided with leads to a plug fitting this socket.

It will be seen that unit 12 is of very simple construction being of a single moulded piece with plates 17, wires 19 and socket 14 incorporated. The reflector 13 is surfaced with highly reflectant material, as by sputtering with aluminium.

In use unit 12 is clipped to the spectacles frame 11 and connected to its battery, which may be housed in the wearer's pocket. Globe 15 projects a beam forward of the wearer to enable easy reading without general high illumination.

Although one unit 12 has been described, a second similar unit may be clipped on the opposite side of frame 11 to give higher illumination and a wider light field.

Although a miniature battery (as used for headin aids) could be provided housed in the spectacle frame itself, it is preferable

to use a remote higher-capacity battery connected by leads to a plug as described.

Various changes and modifications in the arrangement described may be made without departing from the invention as claimed.

WHAT I CLAIM IS:—

1. A reading aid suitable for use with reading spectacles including an optical curved reflector, a light within the curve of said reflector, a clip to removably engage the side frame of a pair of spectacles, a first pair of electrical contacts on said clip, a corresponding second pair of electrical contacts for attachment to said frame engagable with the first pair of contacts when said clip is engaged, and electrical connections between said first pair of contacts and said light and for connecting between said second pair of contacts and a source of electrical energy.

2. A reading aid as claimed in Claim 1, in which said reflector, light, clip and said first electrical contacts are housed integrally in a unit moulded of tough resilient synthetic plastic material.

3. A reading aid substantially as described with reference to the accompanying drawings.

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1467982 COMPLETE SPECIFICATION

1 SHEET This drawing is a reproduction of the Original on a reduced scale

FIG. 1.

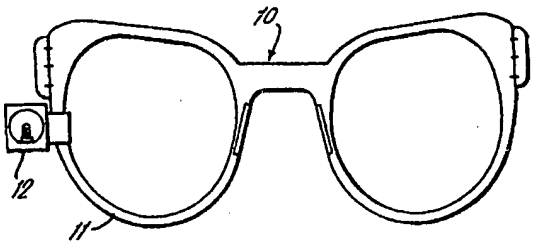

FIG. 2.

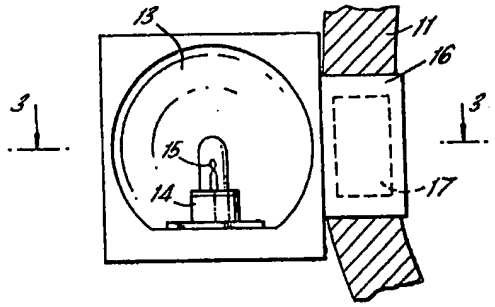

FIG. 3.